

## A B S T R A C T

A route control server (1) sends destination information acquired by a router (2) in a managed area and transfer management information corresponding to the destination information to another route control server 5 and determines the output interface of a packet on the basis of the destination information and transfer management information.

A packet transfer apparatus (3) executes mutual conversion and transfer of an upper layer packet 10 on a user terminal side and a lower layer frame on an optical wavelength path side. An admission control server (4) sets, of the optical wavelength paths of the photonic network, an optical wavelength path formed from a cut-through optical wavelength path which has a 15 guaranteed band and directly connects packet transfer apparatuses of transmission source and destination in accordance with an optical wavelength path connection request from a transmission source user terminal.

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(71)出願人(米国を除く全ての指定国について): 日本電信電話株式会社 (NIPPON TELEGRAPH AND TELEPHONE CORPORATION) [JP/JP]; 〒1008116 東京都千代田区大手町二丁目3番1号 Tokyo (JP).

(72)発明者; および

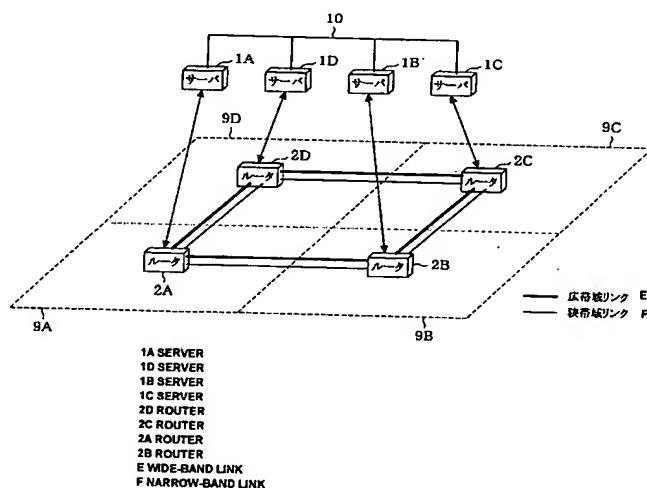
(75)発明者/出願人(米国についてのみ): 松井 健一 (MATSUI, Kentichi) [JP/JP]; 〒1808585 東京都武蔵野市緑町3丁目9-11 NTT 知的財産センタ内 Tokyo (JP). 八木 裕 (YAGI, Takeshi) [JP/JP]; 〒1808585 東京都武蔵野市緑町3丁目9-11 NTT 知的財産センタ内 Tokyo (JP). 成瀬 勇一 (NARUSE, Yuuichi) [JP/JP]; 〒1808585 東京都武蔵野市緑町3丁目9-11 NTT 知的財産センタ内 Tokyo (JP). 村山 純一 (MURAYAMA, Junichi) [JP/JP]; 〒1808585 東京都武蔵野市緑町3丁目9-11 NTT 知的財産センタ内 Tokyo (JP).

(74)代理人: 山川 政樹, 外 (YAMAKAWA, Masaki et al.); 〒1000014 東京都千代田区永田町2丁目4番2号 秀和溜池ビル8階 山川国際特許事務所内 Tokyo (JP).

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(54) Title: PACKET COMMUNICATION NETWORK, ROUTE CONTROL SERVER, ROUTE CONTROL METHOD, PACKET TRANSMISSION DEVICE, ADMISSION CONTROL SERVER, LIGHT WAVELENGTH PATH SETTING METHOD, PROGRAM, AND RECORDING MEDIUM

(54)発明の名称: パケット通信ネットワーク、経路制御サーバ、経路制御方法、パケット転送装置、アドミッション制御サーバ、光波長パス設定方法、プログラム、および記録媒体



(57) **Abstract:** A route control server (1) reports the destination information acquired by a router (2) of the management area and transmission management information corresponding to the destination information to another route control server and decides the output interface of the packet according to the destination information and the transmission management information. Moreover, a packet transmission device (3) subjects the upper node layer packet of the user terminal side and the lower node layer frame of the light wavelength path side to mutual conversion processing and transmits them. According to a light wavelength path connection request from the transmission source user terminal, an admission control server (4) sets a light wavelength path composed of a cut through light wavelength path band-guaranteed and directly connecting the packet transmission devices (3) as the transmission source and as the destination among the light wavelength paths of the photonic network (8A).

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WO 2005/079022 A1